Koppers Co., Inc. (Oroville Plant) Superfund Site in EPA Pacific Southwest Region 9 is considerably more contaminated than Arkwood, Inc. Superfund Site in EPA South Central Region 6 ever was...

...still I believe it can be instructive to compare these two sites, as they have many analogous aspects, including dioxin in the soils and PCP in the water.

Let's start at the same place for our comparison: the Superfund Site Progress Profiles on Superfund Information Systems, for which website EPA Headquarters has ownership and responsibility.

Here's Arkwood first:

Superfund Information Systems: Site Progress Profile

US EPA Superfund Information Systems:... | EPA Region 6 (South Central) | ... | US EPA Superfund Information Systems:...

cfpub.epa.gov/supercpad/cursites/csitinfo.cfm?id=0600124

arkwood epa

U.S. ENVIRONMENTAL PROTECTION AGENCY

Superfund Information Systems

Superfund Site Information
Site Documents
Data Element Dictionary (DED)
Order Superfund Products

Superfund Site Progress Profile
ARKWOOD, INC. (EPA ID: ARD084930148)

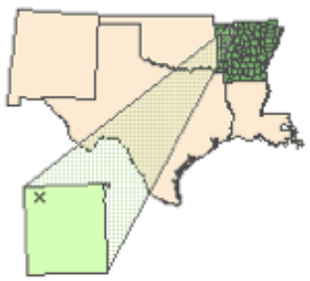
This profile provides you with information on EPA's cleanup progress at this Superfund site. This information includes: Site Location, Cleanup Progress Summary, Cleanup Impact Summary, Contamination, and Cleanup Progress. Please use the links and the "More Details..." box to find more details on this site.

The data and content on this page were last updated on Wednesday, August 21, 2013.

More Details...

More In-Depth Site Details (EPA Regional Content)
Site Contacts (EPA Cleanup Managers, etc.)
Additional Site Documents
Other Names for this Site (Aliases)
View GPRA Measures at this Site (see glossary)

Site Location



Get an interactive map

EPA Region 6 >
Serving Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 66 tribes

Site Address: S. OF CITY @ CRICKETT RR JUNC.
OMAHA, Arkansas
72662

County: BOONE

Cleanup Progress Summary

Construction Complete

Physical cleanup activities have been completed.

view detailed list of cleanup activities at this site >>

The National Priorities List (NPL) is the list of the most hazardous sites across the U.S. and its territories.

This site is on the NPL and is known as a Final NPL site (see glossary).

Potentially Responsible Parties (PRPs) were involved in the cleanup effort (see glossary).

Superfund law requires that EPA give communities information about site progress and plans so that they can be actively involved in site cleanup decisions. Learn more about

Cleanup Impact Summary

At each site, EPA assesses the risk to humans and the environment and determines the best approach to address the risk. During initial site studies and cleanup, EPA determines if current human exposures to contaminants are under control and takes actions to control any possible human exposures until cleanup has been completed. Once complete, cleanup provides long-term human health and environmental protection at the site.

OK **Current human exposures at this site are under control**

see glossary definition for "Human Exposure Environmental Indicator Measure." >>

At each site with known ground water contamination, EPA documents whether ground water contamination is below protective risk-based levels or, if not, whether the migration of contaminated ground water is stabilized.

OK **Contaminated ground water migration is under control**

Find: penta Next Previous Highlight all Match case

ts > ARKWOOD, INC.

click on this and...

More Details...

More In-Depth Site Details (EPA Regional Content)
Site Contacts (EPA Cleanup Managers, etc.)
Additional Site Documents
Other Names for this Site (Aliases)
View GPRA Measures at this Site (see glossary)

Site
the links

nmary

Cleanup Impact Summary

At each site, EPA assesses the risk to humans and the environment and determines the best approach to address the

...and the public user is taken to...

ERROR - HOW UNPLEASANT

404 Error Page | Region 6 | US EPA

Superfund Site Overview Koppe... | EPA Region 6 (South Central) | ... | 404 Error Page | Region 6 | US ...

www.epa.gov/earth1r6/6sf/pdffiles/0600124.pdf

arkwood epa

EPA United States Environmental Protection Agency

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Last updated on 05/09/2012

Print As-Is

Last updated on 05/09/2012

Find: penta Next Previous Highlight all Match case

Arkwood's Superfund Site Progress Profile found at

http://cfpub.epa.gov/supercpad/cursites/csitinfo.cfm?id=0600124

--- is a dead end ---

Now to the Superfund Site Progress Profile for Koppers (Oroville Plant) found at

http://cfpub.epa.gov/supercpad/cursites/csitinfo.cfm?id=0901135

--- same starting point for the public ---

Superfund Information Systems: Site Progress Profile

Superfund Site Overview Koppe... | EPA Region 6 (South Central) | ... | US EPA Superfund Information Systems:...

cfpub.epa.gov/supercpad/cursites/csitinfo.cfm?id=0901135

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U.S. ENVIRONMENTAL PROTECTION AGENCY

Superfund Information Systems

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EPA Home > Superfund > Sites > Superfund Information Systems > Search Superfund Site Information > Search Results > KOPPERS CO., INC. (OROVILLE PLANT)

- Superfund Site Information
- Site Documents
- Data Element Dictionary (DED)
- Order Superfund Products

click...

Superfund Site Progress Profile
KOPPERS CO., INC. (OROVILLE PLANT) (EPA ID: CAD009112087)

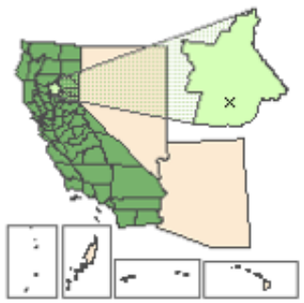
This profile provides you with information on EPA's cleanup progress at this Superfund site. This information includes: Site Location, Cleanup Progress Summary, Cleanup Impact Summary, Contamination, and Cleanup Progress. Please use the links and the "More Details..." box to find more details on this site.

The data and content on this page were last updated on Thursday, August 22, 2013.

More Details...

More In-Depth Site Details (EPA Regional Content)
Site Contacts (EPA Cleanup Managers, etc.)
Additional Site Documents
Other Names for this Site (Aliases)
View GPRA Measures at this Site (see glossary)

Site Location



Get an interactive map

EPA Region 9 >
Serving Arizona, California, Hawaii, Nevada, Pacific Islands and over 140 tribes

Site Address: BAGGETT-MARYSVILLE RD
OROVILLE, California
95965

County: BUTTE

U.S. Congressional District: 01

Cleanup Progress Summary

Construction Complete

Physical cleanup activities have been completed.

view detailed list of cleanup activities at this site >>

The National Priorities List (NPL) is the list of the most hazardous sites across the U.S. and its territories.

This site is on the NPL and is known as a Final NPL site (see glossary).

Potentially Responsible Parties (PRPs) were involved in the cleanup effort (see glossary).

Superfund law requires that EPA give communities information about site progress and plans so that they can be actively involved in site cleanup decisions. Learn more about community involvement at this site >>

Cleanup Impact Summary

At each site, EPA assesses the risk to humans and the environment and determines the best approach to address the risk. During initial site studies and cleanup, EPA determines if current human exposures to contaminants are under control and takes actions to control any possible human exposures until cleanup has been completed. Once complete, cleanup provides long-term human health and environmental protection at the site.

OK **Current human exposures at this site are under control**

see glossary definition for "Human Exposure Environmental Indicator Measure." >>

At each site with known ground water contamination, EPA documents whether ground water contamination is below protective risk-based levels or, if not, whether the migration of contaminated ground water is stabilized.

OK **Contaminated ground water migration is under control**

...and the public user is taken to the following robust site on yosimite.epa.gov.

koppers 1

Superfund Site Overview Koppe... | EPA Region 6 (South Central) | ... | Superfund Information Systems:...

yosemite.epa.gov/r9/sfund/r9sfdocw.nsf/ViewByEPAID/cad00

arkwood epa

EPA United States Environmental Protection Agency

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You are here: EPA Home » Pacific Southwest » Superfund » Site Overviews » Koppers Co., Inc. (Oroville Plant)

Koppers Co., Inc. (Oroville Plant)

EPA #: CAD009112087

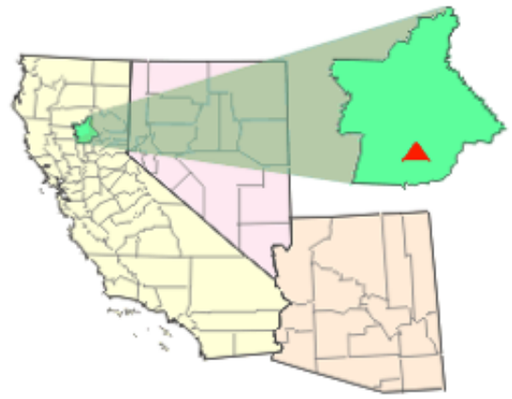
State: California(CA)

County: Butte

City: Oroville

Congressional District: 02

Other Names: Koppers Company, Inc., Koppers Feather River Plant



Map this site in Cleanups in My Community

Bulletin Board

The Fourth Five Year Review is scheduled to be completed by September 2013.

Links

On this page

- Description and History
- Contaminants and Risks
- Who is Involved
- Investigation and Cleanup Activities
- Cleanup Results to Date
- Potentially Responsible Parties
- Documents and Reports
- Community Involvement
- Public Information Repositories
- Additional Links
- Contacts
- Progress Profile (EPA Headquarters)

Description and History

NPL Listing History

NPL Status: Final

Since 1948 until March 15, 2001, the 205-acre Koppers Company, Inc. (Oroville Plant) site was used to conduct wood treating operations to prevent wood deterioration by insects or fungi. Koppers purchased the plant from the National Wood

Find: penta | Next | Previous | Highlight all | Match case

...scrolling down this first page...

Description and History

NPL Listing History

NPL Status: Final
Proposed Date: 09/08/83
Final Date: 09/21/84
Deleted Date:

Since 1948 until March 15, 2001, the 205-acre Koppers Company, Inc. (Oroville Plant) site was used to conduct wood treating operations to prevent wood deterioration by insects or fungi. Koppers purchased the plant from the National Wood Treating Company in 1955 and closed the facility March 15, 2001. Chemical and waste water handling procedures and wood treatment and storage operations contaminated the soil and groundwater on and off site. Fires at the Koppers facility occurred in 1963 and 1987, causing increased contamination at the site. Groundwater, surface water, and soils on and off site were contaminated with pentachlorophenol (PCP) and other hazardous substances used in Koppers' wood treating activities. The contaminated groundwater is located beneath this site and off-property south of the Koppers site. In 1973, PCP was discovered in nearby residential wells that are used as a source of drinking water. In 1988, the Koppers Company, Inc. was bought by the parent company of Beazer East, Inc (BEI). BEI later sold the wood treating plants to Koppers Industries, Inc. (KII). After KII closed its wood treating operation in March 2001, KII resold the site back to BEI in November 2002. In November 2006, BEI sold all the 205 acre site exclusive of parcel #1 containing the site's contaminated soils consolidated into two RCRA landfills to Gold Line Express, Inc. of Woodland CA for development as an industrial park (see attached 49 lot parcel plan). BEI remains the recognized potentially responsible party provided the new owner complies with the insitutional controls contained in the deed restrictions. Approximately 10,650 people live within a three mile radius of the site. These people also depend on groundwater as their source of drinking water. The nearest downgradient private water supply well is just off-property to the south, and there are numerous private water supply wells within three miles of the site. Contamination of groundwater from site-related chemicals extends two miles to the south.

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Contaminants and Risks

Contaminated Media

- Groundwater
- Surface Water

Groundwater on property, contains pentachlorophenol (PCP), dioxins, furans, polycyclic aromatic hydrocarbons (PAHs), and heavy metals including copper, chromium, and arsenic. Off-property downgradient groundwater contains PCP. Potential health risks include drinking contaminated groundwater, or excavating soil below five feet on site. An alternative drinking water supply was provided to residents with the potential for contaminated domestic groundwater wells.

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Who is Involved

This site is being addressed through Federal and potentially responsible parties' actions.

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Investigation and Cleanup Activities

This site is being addressed in three stages: 1. the consolidation of contaminated soil in two corrective action management units which has been completed, 2) contain contaminated groundwater and restore the aquifer using pump and treat technology augmented by nutrient addition to enhance natural biological degradation of the groundwater contamination which has is operating, and 3) monitor a technical impracticability waiver granted for a 4 acre on property area upgradient of the on-property pump and treat system.

Initial Actions

Initial Actions: An alternative water supply was provided by BEI to residents south of the site in areas of potential groundwater contamination since 1986. Between 1987 and 1988, the EPA directed the construction of a temporary chip seal cap over the contaminated soil in the process area. The cap functioned to stabilize the site and to prevent contact with contaminants after a fire spread hazardous substances. In 1994, the EPA directed BEI to build an on-site landfill for disposal of surface soils

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Investigation and Cleanup Activities

This site is being addressed in three stages: 1. the consolidation of contaminated soil in two corrective action management units which has been completed, 2) contain contaminated groundwater and restore the aquifer using pump and treat technology augmented by nutrient addition to enhance natural biological degradation of the groundwater contamination which has is operating, and 3) monitor a technical impracticability waiver granted for a 4 acre on property area upgradient of the on-property pump and treat system.

Initial Actions

Initial Actions: An alternative water supply was provided by BEI to residents south of the site in areas of potential groundwater contamination since 1986. Between 1987 and 1988, the EPA directed the construction of a temporary chip seal cap over the contaminated soil in the process area. The cap functioned to stabilize the site and to prevent contact with contaminants after a fire spread hazardous substances. In 1994, the EPA directed BEI to build an on-site landfill for disposal of surface soils containing high levels of dioxins. The 15,000 cubic yard landfill Cell #1 was completed in 1995. Subsequent detailed investigations determined dioxin soil contamination was widespread preventing the planned soil remedies.

Cleanup Ongoing

Entire Site: The potentially responsible party for site contamination completed a study of the site in 1989. The EPA used the results of this study to select the following methods to address site contamination: removing and treating contaminated groundwater with a carbon adsorption process; treating the contaminated soil in place; capping the wood treating area; providing a permanent water supply to those residents with contaminated wells; and discharging treated groundwater to the aquifer. Two groundwater extraction and treatment systems were installed: one on-site (400 gpm system still operating) and one off-site (600 gpm system shutdown in Dec. 1995 when the plume retreated) using carbon absorption followed by recharge to the aquifer using injection wells. In 1989, the EPA selected three different treatment technologies to clean up approximately 335,000 cubic yards of contaminated soil. However, treatability tests conducted during the design phases showed that the selected technologies could not achieve cleanup goals for all contaminants. BEI initiated a focused feasibility study to evaluate other cleanup alternatives for soils in 1995. In August of 1996, a Record of Decision (ROD) Amendment #1 was issued changing the soil remedy to on-site landfilling of the remaining contaminated soils. ROD Amendment #1 changed the cleanup standard to industrial use and required deed restrictions to prohibit future residential development.

In September 23, 1999, the EPA issued a ROD Amendment #2 to modify the remedy to 1) provide for a Technical Impracticability Waiver due to Dense Non-Aqueous Liquid for 4 acres of the 200 acre site, 2) add enhanced in-situ bioremediation to the remedy, and 3) provide for Monitored Natural Attenuation (MNA) as a contingency remedy. A modification to the Consent Decree modification for ROD Amendments #1 and #2 was completed September 22, 2003. The land use covenant provision of the ROD restricting the site to industrial use and restricting access and use of groundwater under the site were recorded with the Butte County Recorder on November 12, 2003.

Koppers Industries, Inc. closed the wood treating facility in March 15, 2001 and completed its Resource Conservation and Recovery Act (RCRA) closure under State of California oversight July 2002. Remediation of the area beneath the process area became accessible after the RCRA closure. Final soil remediation was completed in September 2002.

With soil remediation complete and groundwater contamination under control a Preliminary Closeout Report was issued September 4, 2003. To review this preliminary report double click on its title below under Site Documents and Report section. A Final Closure Report cannot be issued until the groundwater aquifer has been restored to the cleanup levels specified in the ROD which will be some years in the future.

In 1982, the State issued two orders to Koppers to clean up contaminated soil and groundwater at the site. In 1986, the EPA and Koppers signed a Consent Order, which required the company to conduct a study into the nature and extent of contamination at the site. In December 1990, BEI signed a Consent Decree to perform the engineering design and cleanup activities at the site. An Explanation of Significant Differences was issued January of 1991 which limited soils cleanup to five feet unless a potential source to groundwater were found. In August of 1996, a ROD Amendment #1 was issued changing the soil remedy to an on-site landfill. In September 1999, a ROD amendment #2 was issued modifying the groundwater remedy to provide for 1) 4 acre Technical Impracticability Zone, 2) adding enhanced in-situ bioremediation to

engineering design and cleanup activities at the site. An Explanation of Significant Differences was issued January of 1991 which limited soils cleanup to five feet unless a potential source to groundwater were found. In August of 1996, a ROD Amendment #1 was issued changing the soil remedy to an on-site landfill. In September 1999, a ROD amendment #2 was issued modifying the groundwater remedy to provide for 1) 4 acre Technical Impracticability Zone, 2) adding enhanced in-situ bioremediation to the remedy and 3) providing MNA as a contingency remedy.

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Cleanup Results to Date

Groundwater

To prevent exposure to contaminated groundwater from domestic wells, city water was provided in 1986 to residents with potential for exposure and is paid for by BEI. As the off-property remediation has progressed the need for the alternative water supply program has been reduced from the original thirty-four (34) recipients to seven (7). The remaining seven (7) water supply recipients will continue to receive payment for alternative water supply usage until ROD standards have been met for their drinking water wells.

The off-property pump and treatment facility was taken off-line in December of 1995 as the plume degraded and no contaminants were being removed by the extraction wells. The treatment facility remains in reserve. The residual off-property plume is no longer being fed by contaminants on-property and is continuing to shrink. In August 1998 a pilot in-situ bioremediation program to assist in PCP degradation was initiated and incorporated into the remedy September 1999. The program was initiated with the addition of two nutrients (diammonium phosphate) and oxygen (magnesium peroxide) to three wells and monitoring at five wells. In the first quarter 2004 nutrient addition was reduced to adding only magnesium peroxide.

The on-property pump and treatment facility is still in operation preventing contaminated groundwater from moving off-property. In April 1998 a pilot in-situ bioremediation program was initiated on-property to degrade PCP and incorporated into the remedy in September 1999. The program initially added two nutrients (diammonium phosphate) and oxygen (magnesium peroxide) to six wells and monitoring at five wells. The magnesium peroxide addition was stopped the first quarter 2004. The PCP concentrations in the on-property wells are continuing to decrease. The on-property pump and treat facility will continue to operate until the ROD cleanup standards are meet and then will be held in reserve as long as the Technical Impracticability Waiver remains in effect.

March 8, 1999 BEI submitted a Final Evaluation of Technical Impracticability (TI) of Groundwater Restoration in the Former Creosote Pond and Cellon Blowdown Areas On-property. The TI waiver for the four acres was incorporated into the remedy with ROD Amendment #2 in September 1999. TI zone area and just downgradient is monitored for contaminant movement.

With the demolition of the wood treating facility in 2001 and 2002, boron was mobilized from the DriCon/CCA area and detected by monitoring well MW-8 above the action level. The downgradient on-property treatment plant does not treat for boron. MW-8 was converted to an extraction well to dilute the boron concentration to continue reinjection below the cleanup level. Boron readings are monitored at MW-8 and prior to reinjection for compliance with the ROD.

Soils

In 1987/88 a temporary chip seal cap was placed over the process area. In 1992, two concrete drip pads were installed in the process area to contain wood treating chemicals and prevent any further soil contamination. The cap and drip pads were demolished in 2002 as part of KII's facility closure. Two landfill cells were constructed for disposal of contaminated soils on site. Cell #1 (13,000 cubic yards) was completed in August 1995 as a Removal Action. Cell #2 (147,000 cubic yards capacity) was closed September 2002 with the completion of the soil remediation efforts for the site. 6,000 cubic yards of boron impacted soil was removed from the newly discovered Dri-Con/CCA source and placed in Cell #2 prior to its closure. With soil remediation complete and control of groundwater in place a Preliminary Closeout Report was issued for the site September 4, 2003. A land use covenant was recorded with the Butte County Recorder on November 12, 2003 restricting the site to industrial use and the access and use of groundwater under the site.

In November 2006, BEI sold all the 205 acre site exclusive of parcel #1 containing the site's contaminated soils consolidated into two RCRA landfills to Express, Inc. of Woodland CA for development as an industrial park (see attached 49 lot parcel plan).

The Third Five Year Review Report, completed in July 28, 2008, concluded that currently, all implemented remedies are found to be functioning as intended by the decision

The Third Five Year Review Report, completed in July 28, 2008, concluded that currently, all implemented remedies are found to be functioning as intended by the decision document and, therefore, are protective of human health and the environment.

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Potentially Responsible Parties

Potentially responsible parties (PRPs) refers to companies that are potentially responsible for generating, transporting, or disposing of the hazardous waste found at the site.

As agreed to in the 1992 Consent Decree for the Koppers Site Remediation, Beazer East, Inc. is the PRP for the Koppers Site in Oroville.

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Documents and Reports

Administrative Records

Original AR - Part 1 (includes updates 1-3)

Original AR - Part 2 (includes updates 4-8)

Fact Sheets

03/01/99 EPA Proposes Groundwater Remedy Modification Plan

09/01/01 Koppers Superfund Site Update

08/01/02 EPA Starts Review of Cleanup at the Koppers Superfund Site and Koppers Site Map

08/01/03 EPA Requests Your Comments on Consent Decree Amendment

01/14/08 Koppers Co. Inc. Five-Year Review Fact Sheet

03/24/09 Koppers Co., Inc. Superfund Site Third Five-year Review Fact Sheet

Maps

08/01/02 Koppers Industries, Inc. Site Map August 2002

05/01/06 Oroville Industrial Park Layout

04/20/09 Koppers Site Plume Map - 1994 - 2007

Records of Decision

09/13/89 Entire Site ROD (9/1989)

01/29/91 Entire Site ESD (1/1991)

08/29/96 ROD Amendment #1 (1996)

09/23/99 Amendment #2 to the Record of Decision for Koppers Company, Inc.

Technical Documents

12/22/97 First Five Year Review (12/1997)

02/07/03 Final Second 5-Year Review Report for Koppers Company, Inc.

02/07/03	Final Second 5-Year Review Report for Koppers Company, Inc.
09/04/03	Preliminary Closeout Report for Kopper Company, Inc.
11/28/06	Grant Deed
07/28/08	Third Five-Year Review 2008 -Final
03/01/09	Koppers Semiannual 2008 RA Groundwater Monitoring Report

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Community Involvement

Public Meetings:

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Public Information Repositories

The public information repositories for the site are at the following locations:

Butte County Public Library,
1820 Mitchell Ave.,
Oroville, CA 95965

Meriam Library,
California State University at Chico,
Chico, CA 95929-0295

The most complete collection of documents is the official EPA site file, maintained at the following location:

Superfund Records Center
Mail Stop SFD-7C
95 Hawthorne Street, Room 403
San Francisco, CA 94105
(415) 820-4700

Enter main lobby of 75 Hawthorne street, go to 4th floor of South Wing Annex.

Additional Links

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Contacts

EPA Site Manager			
Daewon Rojas-Mickelson	415-947-4191	Rojas-Mickelson.Daewon@epamail.epa.gov	US EPA Region 9 Mail Code SFD 75 Hawthorne Street San Francisco, CA 94105
EPA Community Involvement Coordinator			
Dana Barton	415-972-3087 1-800-231-3075	Barton.Dana@epamail.epa.gov	US EPA Region 9 Mail Code SFD 75 Hawthorne Street San Francisco, CA 94105
EPA Public Information Center			
	415-947-8701	r9.info@epa.gov	
State Contact			
DTSC - Sam V. Martinez, Jr.	916-255-6583	Sam.Martinez@dtsc.ca.gov	8800 Cal Center Drive Sacramento, 95826-3200
RWQCB - Phil Woodward			

EPA Site Manager			
Daewon Rojas-Mickelson	415-947-4191	Rojas-Mickelson.Daewon@epamail.epa.gov	US EPA Region 9 Mail Code SFD 75 Hawthorne Street San Francisco, CA 94105
EPA Community Involvement Coordinator			
Dana Barton	415-972-3087 1-800-231-3075	Barton.Dana@epamail.epa.gov	US EPA Region 9 Mail Code SFD 75 Hawthorne Street San Francisco, CA 94105
EPA Public Information Center			
	415-947-8701	r9.info@epa.gov	
State Contact			
DTSC - Sam V. Martinez, Jr.	916-255-6583	Sam.Martinez@dtsc.ca.gov	8800 Cal Center Drive Sacramento, 95826-3200
RWQCB - Phil Woodward	530-224-4853		
PRP Contact			
Michael Tischuk	412-208-8809	tischuk@HansonLE.com	Beazer East, Inc.
Jennifer Abrahams	916-853-4526	Jennifer.Abrahams@tetratech.com	Tetra Tech
Community Contact			
Other Contacts			
After Hours (Emergency Response)			
US EPA	(800) 424-8802		

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Following pages are examples of the resources linked to from this first long page we just scrolled through:

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• News & Events
• A-Z Index

Koppers Co., Inc. (Oroville Plant)

Superfund Site

Original AR - Part 1 (includes updates 1-3)

Administrative Record Index

To request copies of administrative record documents, an electronic order form is available.

The documents contained in this administrative record file were used by the U.S. Environmental Protection Agency in identifying appropriate remedial activities for use at the Koppers Co., Inc. Superfund site in Oroville, California. These documents are available in the repositories at the Merian Library of Cal. State University at Chico, at Butte County Public Library in Oroville and in the Region 9 Superfund Records Center in San Francisco.
The Koppers administrative record includes an initial set of documents compiled in December 1988 and seven supplements, or additional sets of documents, added since that time. All of these documents have been microfilmed. A brief description of each of these groups of documents is provided below:

Group	AR Doc.#	Format	Description
Initial	1-376	microfilm	Arranged chronologically from 9/26/83 to 8/22/88, with undated documents at the end of the sequence.
Suppl.1	377-512	microfilm	Arranged chronologically from 4/7/86 to 8/29/89. The initial group and this supplement were the basis for the 1989 ROD as well as the actions taken in response to the 1987 fire at the site. Documents related to the post-fire removal action are indicated in the index by an(R) below each document number.
Suppl.2	513 & 514	microfilm	Consists of the 1989 Record of Decision (ROD) and the 1991 Explanation of Significant Differences (i.e., minor modifications to the ROD).
Suppl.3	515&516	microfilm	Includes the Consent Decree requiring Beazer East, Inc. to implement the 1989 ROD.
Suppl.4	517-737	microfilm	Post-ROD documents that support the March 1996 proposed plan
Suppl.5	738-750	microfilm	Post-ROD documents, including the Site-Wide Soils Remedy Report, that

...which goes on (definition of terms, handy)...

Superfund Site Document, Koppers Co., Inc. (Oroville Plant), Pacific Southwest, US EPA

Superfund Site Document, Kopp... | EPA Region 6 (South Central) | ... | US EPA Superfund Information Systems:...

yosemite.epa.gov/r9/sfund/r9sfdocw.nsf/3dc283e6c5d6056f8

The administrative record file will continue to be added to as documents become available. It will be complete after public comments on EPA's Proposed Plan, EPA's response to comments, and the Record of Decision (ROD) are included.

List of Abbreviations and Acronyms Used in Administrative Record Index

ABBREVIATION	MEANING
ARAR	Applicable or Relevant and Appropriate Restriction (or Requirement)
ATSDR	Agency for Toxic Substances and Disease Registry
CA	State of California
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (Superfund)
CRWQCB	California Regional Water Quality Control Board
DHS	Department of Health Services
D&M	Dames & Moore
DTSC	California Department of Toxic Substances Control
EA	Endangerment Assessment
EPA	Environmental Protection Agency
FOIA	Freedom of Information Act
FS	Feasibility Study or Forest Service
FSP	Field Sampling Plan
HRS	Hazard Ranking System
IPE	Isopropyl Ether
LDS	Leak Detection System
MSDS	Material Safety Data Sheets
NPL	National Priorities List
OU	Operable Unit
PAH	Polynuclear Aromatic Hydrocarbon
PCP	Pentachlorophenol
QA	Quality Assurance
QAPP	Quality Assurance Project Plan
QC	Quality Control
RA	Remedial Action
RDRA	Remedial Design/Remedial Action
REM	Remedial Hazardous Site Engineering Management (type of contract)
REM/FIT	Remedial Hazardous Site Engineering Management/Hazardous Site Field Investigation Team (contract)
RI	Remedial Investigation
ROC	Record of Communication
ROD	Record of Decision

...and on...

Superfund Site Document, Koppers Co., Inc. (Oroville Plant), Pacific Southwest, US EPA

Superfund Site Document, Kopp... | EPA Region 6 (South Central) | ... | US EPA Superfund Information Systems:...

yosemite.epa.gov/r9/sfund/r9sfdocw.nsf/3dc283e6c5d6056f8

4/25/1986	Environmental Protection Agency – Region 9	Koppers Industries, Inc	Administrative order on consent #86-04	88056854
5/1/1986	Koppers Industries, Inc	–	Workplan for RI/FS Study	88056855
5/1/1986	Environmental Protection Agency	–	Fact sheet: EPA & Koppers agree on site investigation plan	88056856
5/1/1986	John Kemmerer / Environmental Protection Agency – Region 9	Thomas Hays / Koppers Industries, Inc	TI: w/o pre-printed pages of consent order	88057720
5/2/1986	Steven Trudell / Dames & Moore	Stephen Smith / Koppers Industries, Inc	Ltr: Transmits 16 copies of RI/FS workplan, w/o encls	88057721
5/7/1986	John Kemmerer / Environmental Protection Agency – Region 9	David Kerschner / Koppers Industries, Inc	Ltr: requests additional air quality monitoring	88057722
5/15/1986	Environmental Protection Agency – Region 9	–	Surface water & sediment sampling results w/attach map & memo analysing results	88056857
5/20/1986	Steven Trudell / Dames & Moore	John Kemmerer / Environmental Protection Agency – Region 9	Ltr: Revision #1, RI/FS workplan	88056858
5/22/1986	–	–	Questions & concerns raised at community meeting, reproduced from group memory	88057723
5/22/1986	Steven Trudell / Dames & Moore	John Kemmerer / Environmental Protection Agency – Region 9	Ltr: Initiation of field activities for RI/FS, schedule	88056798
5/29/1986	John Kemmerer / Environmental Protection Agency – Region 9	David Kerschner / Koppers Industries, Inc	Ltr: Asks Koppers to follow certain criteria in reporting analytical results from field activities at Koppers w/o attch	88057724
6/1/1986	John Kemmerer / Environmental Protection Agency – Region 9	David Kerschner / Koppers Industries, Inc	Ltr: Receipt of monthly status rpt	88057725
6/5/1986	Environmental Protection Agency – Region 9	–	Community work group mtg agenda	88057726
6/9/1986	Joe DeMartini / Woodward-Clyde Consultants	John Kemmerer / Environmental Protection Agency – Region 9	Ltr: Transmits final copies of audit plan and checklist forms, w/encls, memo to J DeMartini fr W Hansen 1/14/87 & photos	88056859
6/9/1986	Steven Trudell / Dames & Moore	John Kemmerer / Environmental Protection Agency – Region 9	TL: Revision #2 to RI/FS workplan	88057727
6/10/1986	Steven Trudell / Dames & Moore	John Kemmerer / Environmental Protection Agency – Region 9	TL: w/monthly status rpt for June, rpts initiation of RI/FS for Feather River plant	88057728
6/10/1986	Dames & Moore	Environmental Protection Agency – Region 9	Monthly status rpt for 5/86, w/TL to John Kemmerer fr Steven Trudell	88056799
6/12/1986	John Kemmerer / Environmental Protection Agency – Region 9	David Kerschner / Koppers Industries, Inc	Ltr: Comments on the content of Monthly Status Reports	88057685
6/17/1986	–	–	Community meeting notes on meeting held to accept written comments on RI/FS workplan for Koppers	88057729
6/19/1986	Ken Wells / Roy F Weston, Inc – Weston-SPER	William Lewis / Environmental Protection Agency – Region 9	Ltr: Koppers sampling w/attch data & photocopies of photos	88057730
6/20/1986	John Kemmerer / Environmental Protection Agency – Region 9	Thomas Hays / Koppers Industries, Inc	Ltr: Accounting of all response & oversight costs incurred by EPA	88057731
6/20/1986	Stephen Smith / Koppers Industries, Inc	John Kemmerer / Environmental Protection Agency – Region 9	Ltr: RI/FS quarterly groundwater monitoring rpt for 4/86, w/attchs	88056800
6/20/1986	Steven Trudell / Dames & Moore	John Kemmerer / Environmental Protection Agency – Region 9	Ltr: Monthly Status Report Information RI/FS: Projected sampling schedule w/attachment	88057686
6/23/1986	John Kemmerer / Environmental Protection	David Kerschner / Koppers Industries, Inc	Ltr: Describes what kind of validation criteria is	88057732

...and that's just Administrative Record index part 1 of 2 for the Koppers site; there are over 600 records available to peruse just on this one long page, part 1 of 2.

Index headers include:

Doc Date
Author / Author Org.
Addressee / Addressee Org.
Title / Subject
Doc ID

...and you can order records from link at top the page to...

Document Request, US EPA, Pacific Southwest, Superfund Sites

Document Request, US EPA, Paci... | EPA Region 6 (South Central) | ... | US EPA Superfund Information Systems:...

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Pacific Southwest, Region 9: Superfund

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You are here: EPA Home » Pacific Southwest » Superfund » Site Overviews » Administrative Records » Document Request

Document Request Form

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Today's Date	08/23/2013
Superfund Site Name	
Title of Administrative Record	
Documents Requested (specify Document ID or AR #)	
Send copies to (specify name, address, city, state, zip, phone)	
Send bill to (specify name, address, city, state, zip, phone)	
Further instructions/notes	

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Here are other examples of invaluable resources, all linked to from just that one Region 9 page shown above (slide 11) and accessible at:

http://yosemite.epa.gov/r9/sfund/r9sfdocw.nsf/ViewByEPAID/cad009112087?OpenDocument

Preliminary Closeout Report for Koppers Company, Inc., Superfund Site, Oroville, California

Prepared by

U. S. Environmental Protection Agency

September 2003

EPA Koppers Superfund Site

U.S. Environmental Protection Agency $ Region 9 $ San Francisco, CA $ January 2008

Five-Year Review Fact Sheet

This fact sheet provides an update of activities at the Koppers Industries, Inc. Superfund Site and also provides notice of the upcoming five-year review. It is being distributed to EPA's mailing list for the Koppers Site and other interested parties. If you are not on the mailing list and would like to be added, please contact one of the EPA staff listed at the end of this fact sheet.

Five-Year Review

The United States Environmental Protection Agency (EPA) is beginning the third five-year review for the Koppers Superfund Site in Oroville, CA and expects to complete the review in 2008. A five-year review is required by the Superfund law whenever the remedy for a site either leaves waste on site above levels that are safe for unrestricted use or will take longer than five years to reach cleanup goals. The purpose of the five-year review is to determine if the remedy is protective of human health and the environment.

For the Koppers site, the review is required because a) the soil cleanup goals were set at levels that allow for only commercial/industrial use (not residential use)

time. The groundwater treatment and soil consolidation remedies were found to be protective of human health and the environment. The second five-year review evaluated the remedies and any changes at the site that had taken place between December 1997 and February 2003. The review concluded that cleanup remedies remained protective of human health and the environment. The review noted that the deed restriction to prohibit residential use of the Koppers property was not yet in place; that action was completed in November 2003.

Remedy Selection for Koppers

A Record of Decision (ROD) for Koppers was signed in 1989 and has been amended twice, first in 1996 and

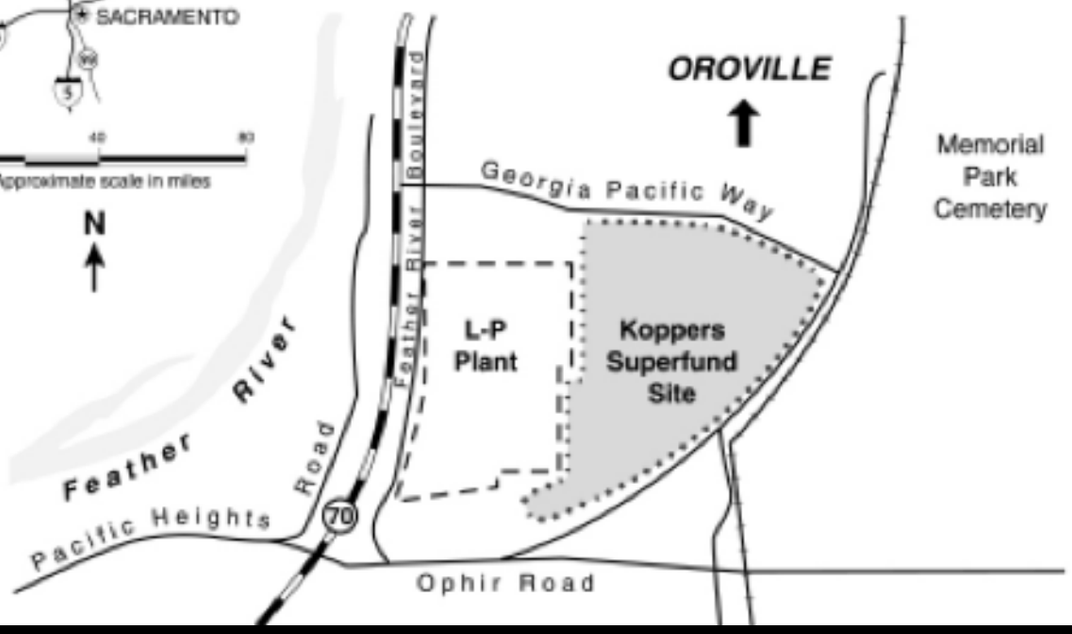
Koppers Co., Inc. Superfund Site Update

United States Environmental Protection Agency • Region 9 • August 2003

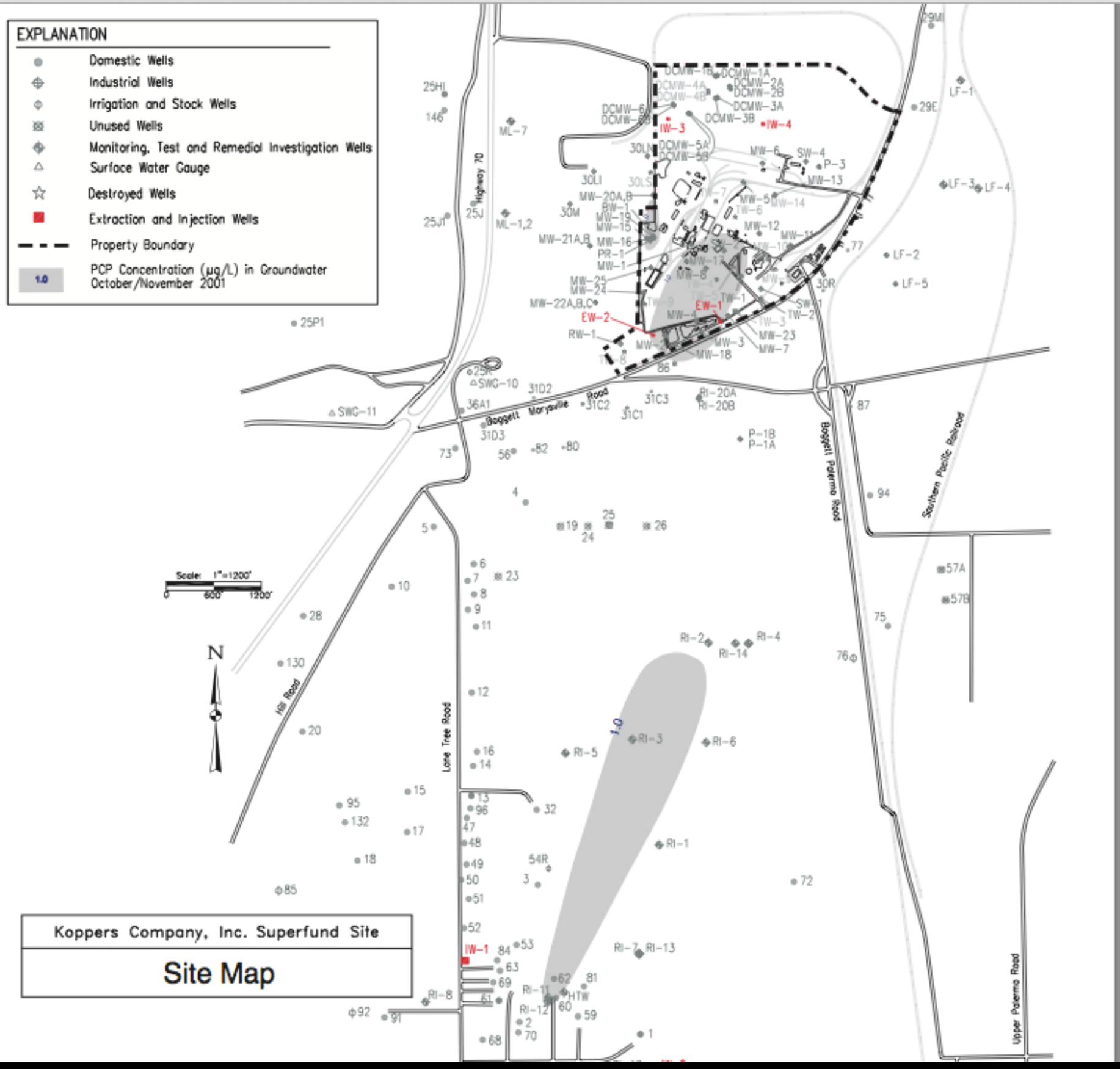
EPA REQUESTS YOUR COMMENTS ON CONSENT DECREE AMENDMENT

INTRODUCTION

The United States Environmental Protection Agency (EPA) invites the public to review and comment on a Consent Decree (CD) amendment concerning the cleanup of the Koppers **Superfund** site in Oroville, CA. The CD availability notice has been published in the Federal Register on **August 7, 2003.** In addition, the EPA has placed a notice in the City's local newspaper announcing the opening of the 30-day public comment period that ends on **September 7, 2003.** This fact sheet also



KoppersSite Map01.pdf (1 page)



EPA/ROD/R09-89/037
1989

EPA Superfund
Record of Decision:

KOPPERS CO., INC. (OROVILLE PLANT)
EPA ID: CAD009112087
OU 01
OROVILLE, CA
09/13/1989

EPA KOPPERS SUPERFUND SITE

U.S. Environmental Protection Agency • Region 9
Oroville, California March 1999

EPA PROPOSES GROUNDWATER REMEDY MODIFICATION PLAN

INTRODUCTION

The United States Environmental Protection Agency (EPA) is requesting public comments on this Proposed Plan[1] to modify the groundwater remedy at the Koppers Company, Inc. Superfund site (Koppers site) in Oroville, CA (see Fig. 1, page 2). No change is being proposed to the soils remedy. Based on remedial action monitoring and treatability studies the EPA has concluded that modifying the pump and treat (P&T) groundwater remedy is appropriate to complete the remedy.

EPA's preferred modifications include 1) issuing a Technical Impracticability (TI) Waiver for the groundwater cleanup at the former creosote pond and cellon blown areas due to the presence of dense nonaqueous-phase liquids (DNAPL); 2) allowing

Proposed Plan highlights key information about the remedy alternatives considered for groundwater cleanup, potential human health risks posed by the contaminants, and the present extent of groundwater cleanup at the site.

The modification alternatives considered, and EPA's preferred alternative, are presented for public review and comment. The comment period is from March 15, 1999 to April 13, 1999. EPA invites the public to a meeting scheduled for March 23, 1999 where EPA will present the plan and receive verbal comments (See box below for more information).

The EPA's proposed remedy modifications are preliminary and the final decisions will not be made until all significant public comments are considered. After review and response to public comments, the remedy modifications chosen will be formalized in a document called Amendment #2 to the Record of Decision (Amend.#2ROD). The remedy modifications selected for Amend.#2ROD could differ from what is outlined here based on public comment.

PUBLIC COMMENT PERIOD AND COMMUNITY MEETING	
A 30-day public comment period	Where: Oakdale Heights School

I could go on, but I suggest EPA Region 6 Superfund management visit these websites personally to take a hard look at the Δ I point out between Region 6 standards for reporting, transparency and accountability compared to those upheld by Region 9 as presented in this example.

Thank you

Charles Curtis Grisham, Junior
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